

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (cancelled)

Claim 2. (previously presented) The actuation system as in Claim 29, wherein said first drive unit comprises a voice coil motor.

Claim 3. (previously presented) The actuation system as in Claim 29, wherein said first outer inactive region and said second outer inactive region are connected to said flexure and wherein said slider is connected to said inner inactive region.

Claim 4. (cancelled)

Claim 5. (previously presented) The actuation system as in Claim 29, further comprising a flex circuit for providing electrical connections to said read/write head and said microactuator.

Claim 6. (previously presented) The actuation system as in Claim 29, wherein the disc drive actuation system is a magnetic disc drive actuation system.

Claim 7. (previously presented) The actuation system as in Claim 29, wherein the disc drive actuation system is an optical disc drive actuation system.

Claim 8. (cancelled)

Claim 9. (cancelled)

Claim 10. (cancelled)

Claim 11. (cancelled)

Claim 12. (cancelled)

Claim 13. (cancelled)

Claim 14. (cancelled)

Claim 15. (currently amended) A disc drive actuation system, comprising:

- A) a flexure,
- B) a solid microactuator not interrupted by break or opening ~~connected to said flexure~~, said solid microactuator comprising:
 - 1) an inner inactive region,
 - 2) a first outer inactive region,
 - 3) a second outer inactive region,
 - 4) a first piezoelectric section sandwiched between said first outer inactive region and said inner inactive region,
 - 5) a second piezoelectric section sandwiched between said second outer inactive region and said inner inactive region,
- C) a slider connected to said solid microactuator, wherein said slider is independently supported by said solid microactuator, and
- D) a read/write head connected to said slider,

wherein said inner inactive region is sandwiched between said first piezoelectric section and said second piezoelectric section, wherein said inner inactive region is firmly attached to one of said flexure or said slider and both of said outer inactive regions being firmly attached to the other of said flexure or said slider, wherein said microactuator is configured and arranged to displace said read/write head with respect to tracks of a rotatable disc in response to control signals applied to said microactuator.

Claim 16. (cancelled)

Claim 17. (cancelled)

Claim 18. (cancelled)

Claim 19. (cancelled)

Claim 20. (original) The actuation system as in Claim 15, further comprising at least one flex circuit for providing electrical connections to said read/write head and said microactuator.

Claim 21. (previously presented) The actuation system as in Claim 15, wherein the disc drive actuation system is a magnetic disc drive actuation system.

Claim 22. (original) The actuation system as in Claim 15, wherein the disc drive actuation system is an optical disc drive actuation system.

Claim 23. (previously presented) The actuation system as in Claim 29, wherein said first piezoelectric section comprises two first piezoelectric sides, wherein both of said first piezoelectric sides are opposite to each other, and wherein said second piezoelectric section comprises two second piezoelectric sides, wherein both of said second piezoelectric sides are opposite to each other, wherein one of said two first piezoelectric sides is rigidly attached to said first outer inactive region and wherein the other of said two first piezoelectric sides is rigidly attached to said inner inactive region, and wherein one of said two second piezoelectric sides is rigidly attached to said second outer inactive region and wherein the other of said two second piezoelectric sides is rigidly attached to said inner inactive region.

Claim 24. (cancelled)

Claim 25. (previously presented) The actuation system as in Claim 15, wherein said first piezoelectric section comprises two first piezoelectric sides, wherein both of said first piezoelectric sides are opposite to each other, and wherein said second piezoelectric section comprises two second piezoelectric sides, wherein both of said second piezoelectric sides are opposite to each other, wherein one of said two first piezoelectric sides is rigidly attached to said first outer inactive region and wherein the other of said two first piezoelectric sides is rigidly attached to said inner inactive region, and wherein one of said two second piezoelectric sides is rigidly attached to said second outer inactive region and wherein the other of said two second piezoelectric sides is rigidly attached to said inner inactive region.

Claim 26. (previously presented) A disc drive actuation system for precisely positioning a read/write head over a selected track of a rotatable disc, said system comprising:

- A) a flexure,
- B) a slider,
- C) a read/write head firmly attached to said slider,
- D) a first drive unit for pivoting said flexure to position said read/write head approximately over the selected track,
- E) a microactuator comprising:
 - 1) an inner inactive region,
 - 2) a first outer inactive region,
 - 3) a second outer inactive region,
 - 4) a first piezoelectric section sandwiched between said first outer inactive region and said inner inactive region,
 - 5) a second piezoelectric section sandwiched between said second outer inactive region and said inner inactive region,

wherein said inner inactive region is sandwiched between said first piezoelectric section and said second piezoelectric section, wherein said first outer inactive region and said second outer inactive region are connected to said slider and wherein said flexure is connected to said inner inactive region,

- 6) an electrical circuit for energizing said first and said second piezoelectric sections to cause them to expand and contract in order to precisely position said read/write head over said selected track, said circuit and said piezoelectric sections being configured such that said first piezoelectric section expands when said second piezoelectric section contracts and said first piezoelectric section contracts when said second piezoelectric section expands.

Claim 27. (cancelled)

Claim 28. (cancelled)

Claim 29. (previously presented) A disc drive actuation system for precisely positioning a read/write head over a selected track of a rotatable disc, said system comprising:

- A) a flexure,
- B) a slider,
- C) a read/write head firmly attached to said slider,
- D) a first drive unit for pivoting said flexure to position said read/write head approximately over the selected track,
- E) a solid microactuator not interrupted by a break or opening, said solid microactuator comprising:
 - 1) an inner inactive region,
 - 2) a first outer inactive region,
 - 3) a second outer inactive region,
 - 4) a first piezoelectric section sandwiched between said first outer inactive region and said inner inactive region,
 - 5) a second piezoelectric section sandwiched between said second outer inactive region and said inner inactive region,

wherein said inner inactive region is sandwiched between said first piezoelectric section and said second piezoelectric section, wherein said inner inactive region is firmly attached to one of said flexure or said slider and both of said outer inactive regions being firmly attached to the other of said flexure or said slider,

- 6) an electrical circuit for energizing said first and said second piezoelectric sections to cause them to expand and contract in order to precisely position said read/write head over said selected track, said circuit and said piezoelectric sections being configured such that said first piezoelectric section expands when said second piezoelectric section contracts and said first piezoelectric section contracts when said second piezoelectric section expands.

Claim 30. (cancelled)

Claim 31. (previously presented) The actuation system as in Claim 29, wherein said solid microactuator is a rectangular block.

Claim 32. (cancelled)